IOWA DEPARTMENT OF NATURAL RESOURCES WATER SUPPLY SECTION CONSTRUCTION PERMIT APPLICATION

SCHEDULE-11, Cation Exchange Softening

Date Prepared		ed	Project Identity						
Date Revised									
1. Design Data:									
		G 6	D.			9			
		Softener:	Pressure Downflow						
		Unit Number		Unit #		Unit#	Unit #	#	
		Capacity (gpm)							
		Dimensions (in Operating Press							
		Softening Rate							
	Backwash Rate (gpm/ft ²)								
	Duration of backwash (minutes))								
	Resin								
		Technical Nam							
		Exchange Capa							
			on (lb. NaCl/ft ³)						
		Volume of Resin							
2.	Provide the following salt storage information:								
	a. Capacity: lbs; days b. Above or below ground: Wet or dry								
	c. Type of structure:								
2									
3.	For the following, reference the page of the plans or specifications where the description can be found.								
	Materials and Construction De			rils Plan or Specification Page Number					
			Distribution						
			Connection Control						
		Bypas							
			ing Taps						
			and Salt Storage						
	Salt Storage Housing								
4.	How large an air gap is provided between the backwash water outlet and the receiving sump? inches spec. page no.								
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5.	Are	automatic regene	ration controls provided?	Yes 🗌	No 🗌	Describe the re	egeneration proced	lure:	
-	spec	. page no.							
6.	Can all automatically controlled switches and valves be manually operated? Yes No								
7.	Is salinity testing equipment provided? Yes No spec. page no.								
8.	Are valve operators located within five feet of the operating floor? Yes \(\scale= \) No \(\scale= \) spec. page no.								
9.	Are drains provided for each salt storage structure and brine tank? Yes No How large an air gap is provided between the drain outlet and the receiving sump?								
10.	10. Are all gauges placed so as to be easily read from the normal operating floor? Yes No spec. page no.								

DNR form 12-11 (R 04-04) 542-3146